

ABSTRACT OF THE DISCLOSURE**APPARATUS AND METHOD FOR AVOIDING DEADLOCKS IN A
MULTITHREADED ENVIRONMENT**

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An apparatus and method for avoiding deadlocks in a multithreaded environment is provided. The apparatus and method provide a mechanism by which multiple threads are allowed to call a method virtually simultaneously without experiencing the problems regarding multiple compilations of the same method or a lock being held by one thread while other threads wait on the lock. With the apparatus and method, the first thread to call a method is the thread that causes the method to be compiled. Subsequent calls to the method, during a period of time in which the method is being compiled, are redirected to the JVM interpreter, thereby avoiding any deadlock situation.

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